

Model PL-3600 - 1" (25.4mm) Hole Pattern 5.25" (133.4 mm) Perforated Vertical Storm Resistant Louver

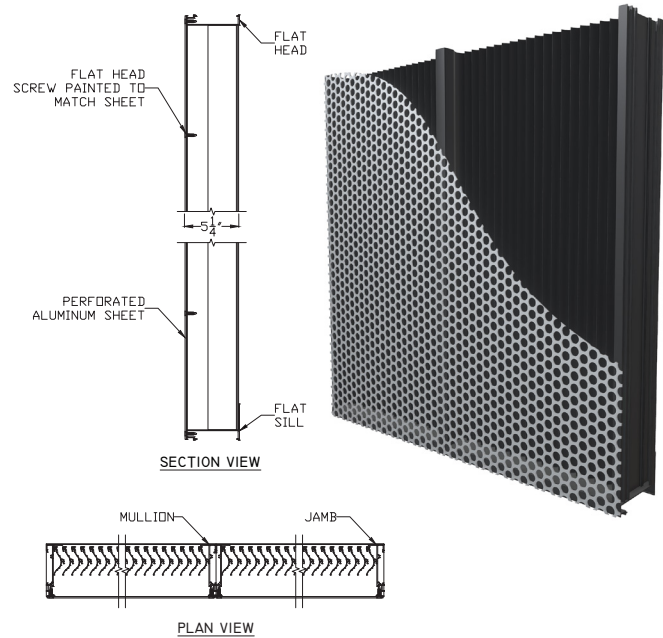
Material:

Material:	Louver 6063-T6 Alloy Perforated Sheet 3003 H14 aluminum
Nominal Thickness (heads, sills, jambs, & mullions):	0.08" (2.03 mm)
Nominal Blade Thickness:	0.05" (1.27 mm)
Additional Options (at additional cost):	Rear bird or Insect screen Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames Integrated glazing frames

**Test Summary:
For a 4 Foot by 4 Foot Unit.**

Tested with mill finish and no rear bird or insect screen

- Free area = 8.61 ft² (0.79m²)
- Percent free area = 53.8%
- Intake pressure drop at 1000 FPM free area velocity = 0.20 in. H₂O (49.8 Pa)
- To maintain a CLASS A (99%) effectiveness rating* with:
 - a 29.1 mph wind speed and rainfall rate of 3 in/hr
 - Max. intake core velocity 5.0 m/s (985 FPM)
 - Max. intake free area velocity 8.71 m/s (1,716 FPM)
 - a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 5.0 m/s (991 FPM)
 - Max. intake free area velocity 8.76 m/s (1,726 FPM)



Discharge Coefficient
Intake Cd = 0.32 (Class 2)

Wind Driven Rain Performance: Tested with 1m² core area, mill finish and no rear bird or insect screen*

The louver test was based on a 39.370" (1.0 m) x 39.370" (1.0 m) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29.1 mph (13 m/s) as well as a rainfall rate of 8" per hour (203 mm) and a wind velocity of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

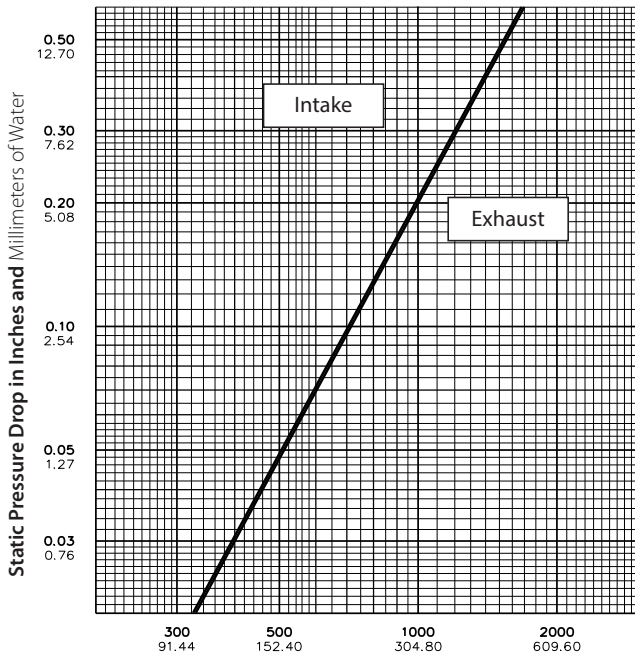
29.1 mph (13 m/s) & 3" (75 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	98	196	294	393	492	590	688	786	885	985
Free Area Velocity (ft/min):	0	171	341	512	685	857	1028	1198	1369	1541	1716
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):											100.0

50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
Core Velocity Through Louver (ft/min):	0	96	196	287	396	481	587	690	791	887	991	
Free Area Velocity (ft/min):	0	167	341	500	690	838	1022	1202	1378	1545	1726	
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A	
Effectiveness Ratio (%):											100.0	
Effectiveness Rating:	A = 1 to 0.99			B = 0.989 to 0.95			C = 0.949 to 0.80			D = Below 0.80		

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Air Velocity in Feet and Meters per Minute Through Free Area

Data corrected to standard air density.
48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/louvers-airflow-tool>

Width in Inches and Meters

Height in Inches and Meters	Width in Inches and Meters							
	18	24	30	36	42	48	54	60
0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	
18	0.92	1.29	1.67	2.05	2.43	2.80	3.23	3.50
0.46	0.09	0.12	0.16	0.19	0.23	0.26	0.30	0.33
24	1.30	1.83	2.36	2.90	3.43	3.96	4.57	4.96
0.61	0.12	0.17	0.22	0.27	0.32	0.37	0.42	0.46
30	1.68	2.37	3.05	3.74	4.43	5.12	5.91	6.41
0.76	0.16	0.22	0.28	0.35	0.41	0.48	0.55	0.60
36	2.05	2.90	3.75	4.59	5.44	6.28	7.25	7.86
0.91	0.19	0.27	0.35	0.43	0.51	0.58	0.67	0.73
42	2.43	3.44	4.44	5.44	6.44	7.44	8.58	9.31
1.07	0.23	0.32	0.41	0.51	0.60	0.69	0.80	0.86
48	2.81	3.97	5.13	6.29	7.45	8.61	9.92	10.76
1.22	0.26	0.37	0.48	0.58	0.69	0.80	0.92	1.00
54	3.19	4.51	5.82	7.14	8.45	9.77	11.26	12.21
1.37	0.30	0.42	0.54	0.66	0.79	0.91	1.05	1.13
60	3.57	5.04	6.51	7.98	9.45	10.93	12.60	13.66
1.52	0.33	0.47	0.61	0.74	0.88	1.02	1.17	1.27
66	3.84	5.42	7.00	8.58	10.17	11.75	13.54	14.68
1.68	0.36	0.50	0.65	0.80	0.94	1.09	1.26	1.36
72	4.22	5.96	7.70	9.43	11.17	12.91	14.88	16.13
1.83	0.39	0.55	0.71	0.88	1.04	1.20	1.38	1.50
78	4.60	6.49	8.39	10.28	12.17	14.07	16.22	17.59
1.98	0.43	0.60	0.78	0.96	1.13	1.31	1.51	1.63
84	4.98	7.03	9.08	11.13	13.18	15.23	17.56	19.04
2.13	0.46	0.65	0.84	1.03	1.22	1.41	1.63	1.77
90	5.36	7.56	9.77	11.98	14.18	16.39	18.89	20.49
2.29	0.50	0.70	0.91	1.11	1.32	1.52	1.76	1.90
96	5.74	8.10	10.46	12.82	15.19	17.55	20.23	21.94
2.44	0.53	0.75	0.97	1.19	1.41	1.63	1.88	2.04
102	6.12	8.63	11.15	13.67	16.19	18.71	21.57	23.39
2.59	0.57	0.80	1.04	1.27	1.50	1.74	2.00	2.17
108	6.50	9.17	11.85	14.52	17.19	19.87	22.91	24.84
2.74	0.60	0.85	1.10	1.35	1.60	1.85	2.13	2.31
114	6.88	9.71	12.54	15.37	18.20	21.03	24.25	26.29
2.90	0.64	0.90	1.16	1.43	1.69	1.95	2.25	2.44
120	7.25	10.24	13.23	16.22	19.20	22.19	25.58	27.74
3.05	0.67	0.95	1.23	1.51	1.78	2.06	2.38	2.58

Upper Numerals English Units/Lower Numerals Metric Units